



DN408

Network Video Recorder

4CH PoE + 4CH LAN

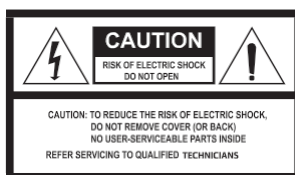
Network Video Recorder Instruction Manual

Version 1.0



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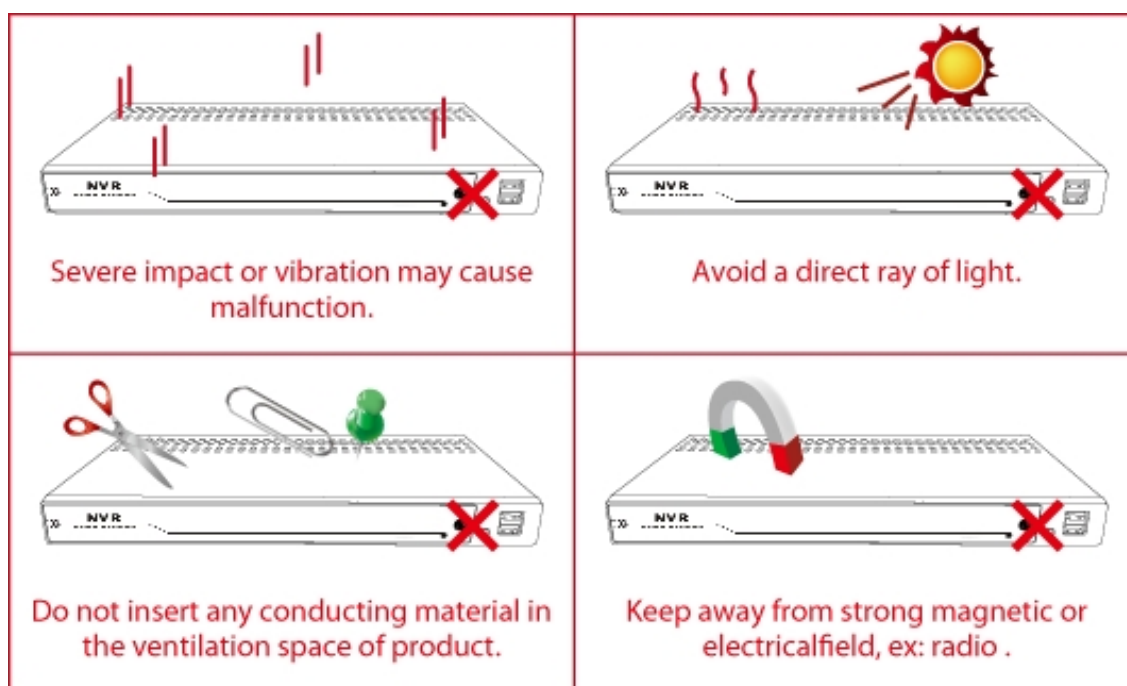
Introduction:

This manual is for the users who attempt to use H.264 Network Video Recorder (NVR). It expresses installation guide, connecting to peripherals, and GUI operations. Please familiarize yourself with the contents in this manual before using the NVR. Make sure that you have referred to an expert when operating the outer case for repair or installing HDD. If you have any inquiries or questions, please consult your local dealer.

Warning:

To prevent fire or electric shock, do not expose this product to rain or moisture. Do not open the cabinet. Refer servicing to qualified personnel only.

	RoHS This directive restricts the use of six hazardous materials in the manufacture of various types of electronic and electrical equipment.
	USA (FCC) This device has been tested and found to comply with the limits of Class. A computing device pursuant to part 15 of the FCC rules.
	Europe (CE) By affixing the CE marking, the manufacturer assures that the item meets all the essential requirements of all applicable EU directives
	Japan (PSE) The purpose of the Electrical Appliance and Material Safety Law is to prevent hazards and disturbances resulting from electrical appliances



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Product Overview

Package contents

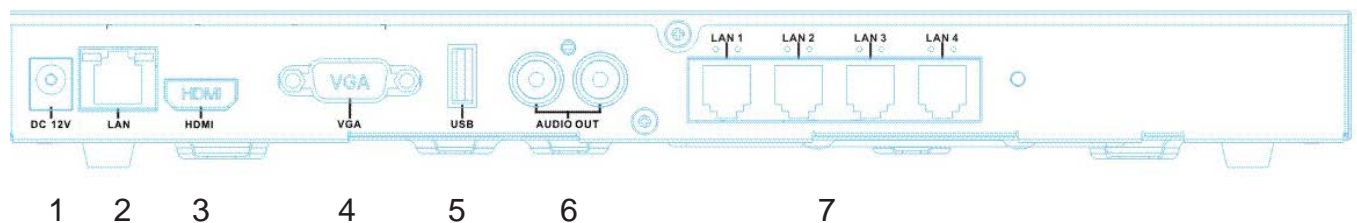
NVR	Remote control	USB mouse	Flex IR extender
			
Power adapter	Screws pack	Product CD	Quick Connection Guide
			

*The actual items maybe different from the picture shown

Front Panel



Real Panel



1. Power: DC12V
2. LAN: RJ-45
3. HDMI: Video output
4. VGA: Video output
5. USB port: For USB mouse control/ USB backup/ Firmware update
6. Audio out : RCA x2
7. Video in : LAN RJ-45 x4 (4CH)

HDD Installation

HDD new installation

Step 1:

Remove the Screws from the rear panel and side panel of the housing.



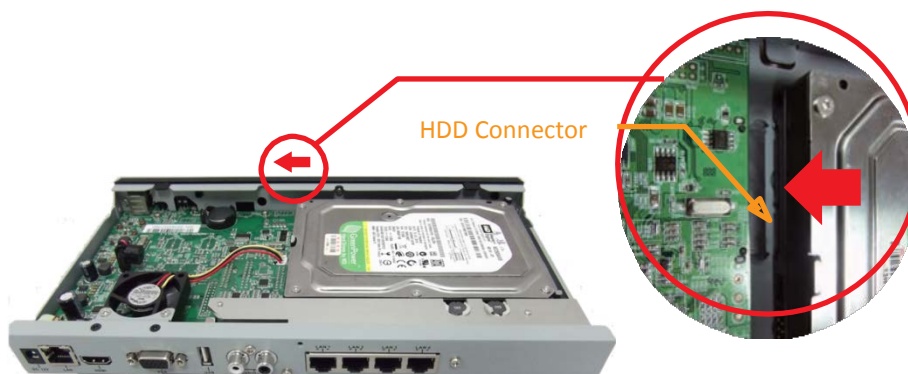
Step 2:

Gently slide the cover away from the rear panel and lift it.



Step 3:

Carefully place the HDD at the upper right side and slide it to plug into the connector properly.



Step 4:

With your hand supporting the HDD and turn the unit upside down and secure the HDD from the bottom of case with 4 screws.



Step 5:

Screw the cover back, replacing the screws on the side panel(x4) and rear panel(x1).



NOTE:

1. The new HDD must be formatted in order to work properly in system. For the detail about the "Format HDD", please refer to 4.3.5.
2. The HDD will be started in 5~30 seconds after NVR is powered on. If the HDD is not detected, warning will be shown for 3 seconds by a message "HDD is not installed!" with beep every 10 seconds. You can turn off the buzzer or leave live mode to quiet it down.
3. There are three reasons which may cause the above warning message:
 - I. HDD is broken.
 - II. HDD is not installed or not installed properly.
 - III. The recording model is set as "single-way recording" and HDD is full.
4. If the HDD is not detected and not started within 30 seconds. It will be determined as a failed HDD.

Replacing the Hard drive

Make sure the NVR power is off and power cable has been disconnected before changing the hard drive.

Step 1:

Remove the screws from the rear panel and side panels of the housing.



Step 2:

Gently slide the cover away from the rear panel and lift off.



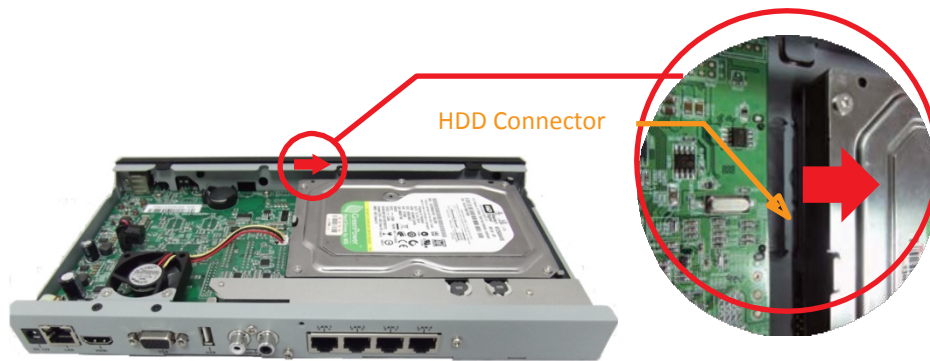
Step 3:

With your hand supporting the HDD when turn unit upside down, remove 4 screws from the bottom of case.



Step 4:

Gently slide the hard drive from the connector properly.



Step 5:

Install new HDD.

Step 6:

Screw the cover back on the side panel (x4) and rear panel (x1).



NOTE:

After replacing the HDD, the new HDD must be formatted in order to work properly in system.

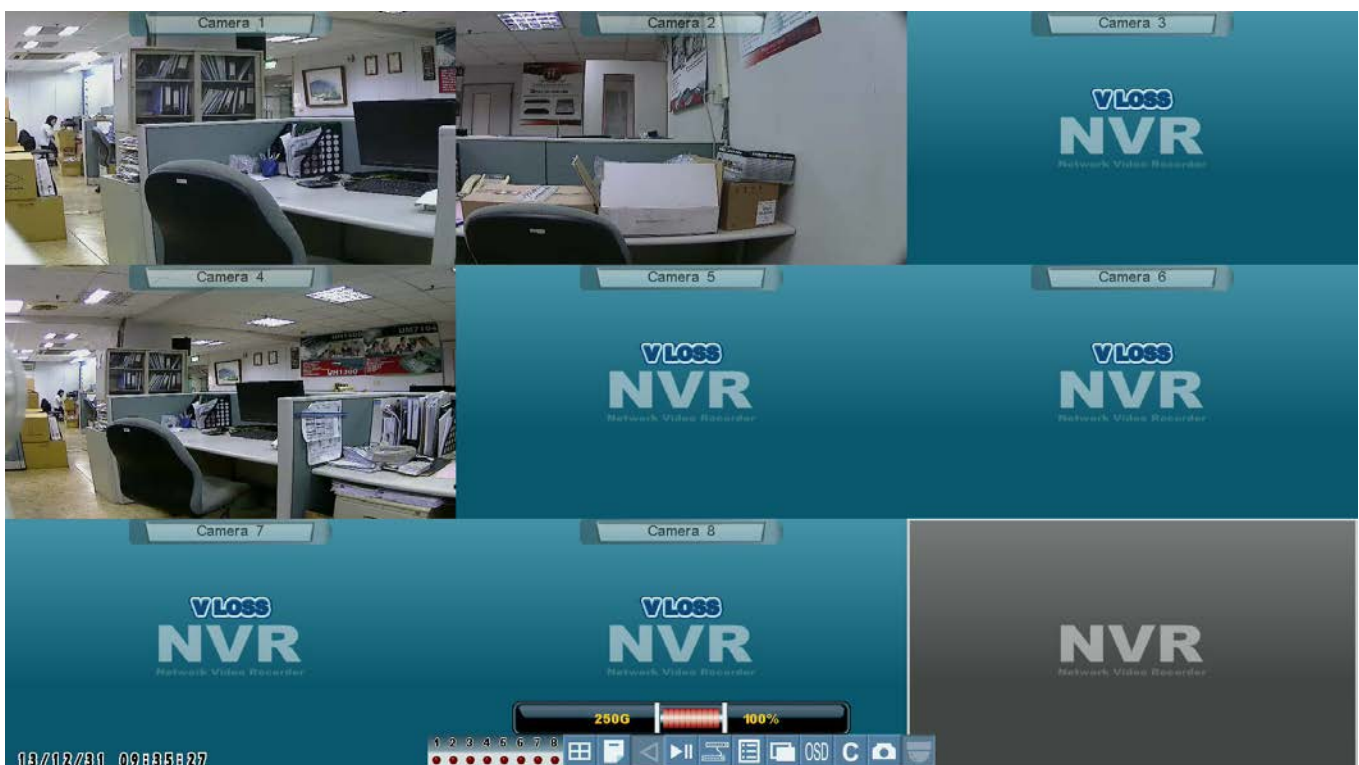
Basic Operations

Display Screen

4-Channel



8-Channel



1. **HDD Status:** displays the percentage of recording space consumed on the hard disk and the size of the installed hard drive.













2. **Camera Status:** 4/8 channel: displays channels on the system. The red light will flash to indicate recording is in progress.




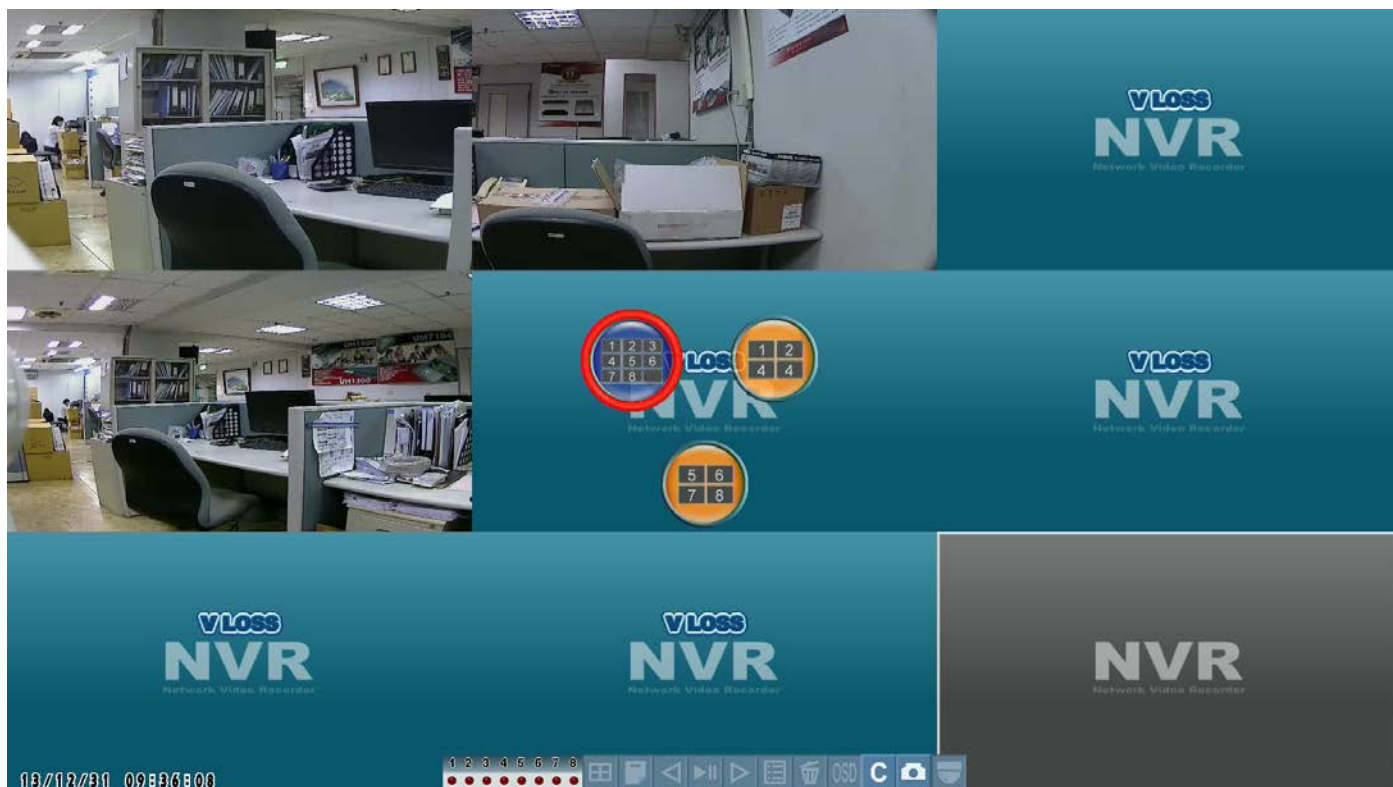
3. **Tool Bar:** primary control input for the user interface.



				
Split modes	Main Menu	Playback/Pause	Camera	Event List
				
Sequence	OSD	Return/Esc	Screenshot	PTZ

Display Mode

Left-click on the icon  to open the Split-Screen selector and choose the display mode you want.

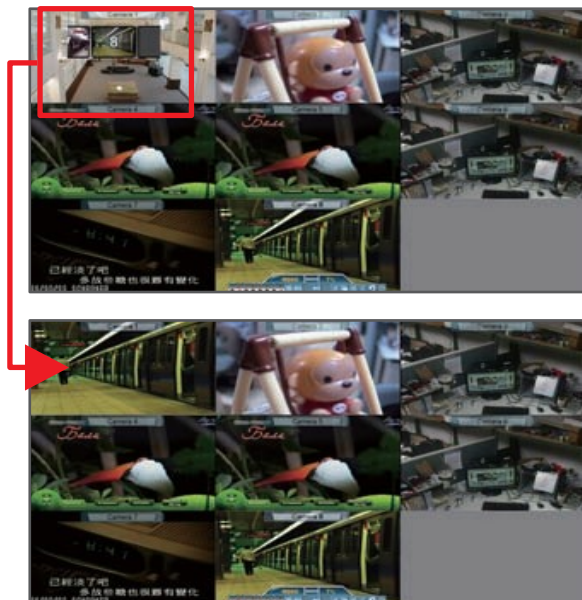


Flexible Camera Assignment

You can re-assign the channels to different camera. For example, you can duplicate the video feed from channel 1 onto channel 2. This is useful if you wish to re-arrange the position of each channel.

For Example:

Re-assigned channel 1 to channel 8.



NOTE: The NVR continues to record the designated channel even if you re-assign camera positions.

To re-assign camera positions:

Step 1:

Select the channel you want to re-assign.

Step 2:

Click and hold the mouse, a channel menu will appear.




Step 3:

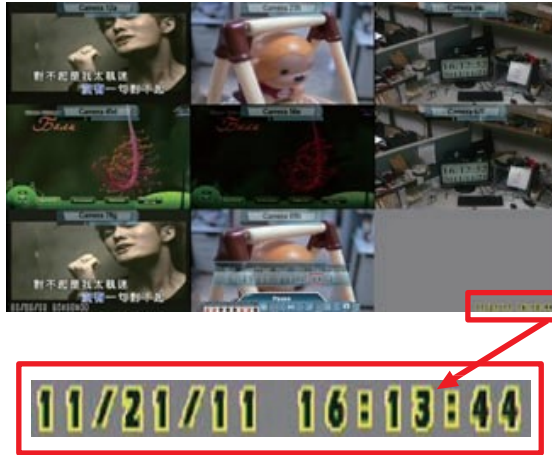
While holding left-click, move the mouse to the left or right to change the channel number.

Step 4:



Release left-click on the mouse to assign the new channel.


Playback

Click the icon  to enter playback mode. The timestamp appears in the bottom-right corner of the screen indicates the playback time.




 Split mode


  Arrow keys: day/time selector

 Playback / Pause

 Event List

 Show / hide OSD

 ESC

 Screenshot

 PTZ

Click the numerals to select date / hour / minute / second or frame and adjust them by rolling up and down the mouse.

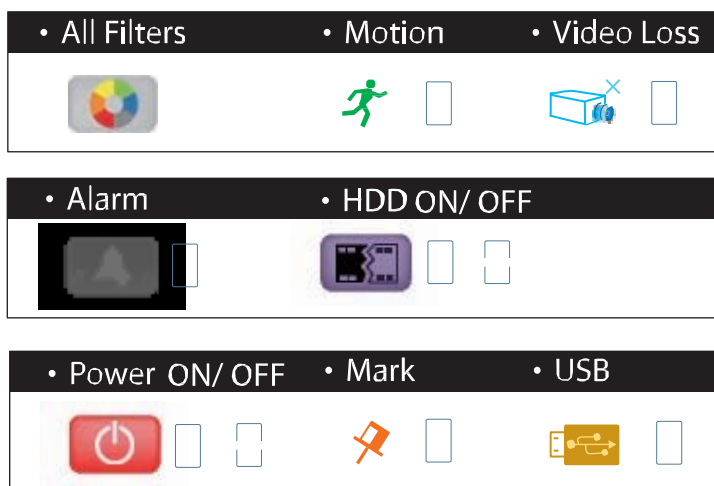
Playback Mark:

Click the bar to mark the timing of important video when searching playback data, the orange cursor will be shown in the center of the bar.



Auxiliary Search Cursors:

This smart search design allows you to search data quicker and easier, meanwhile, the colorful cursors are helpful to diagnose the happened events.




For Example:

Below picture shows many events happened, you can click the numerals of data/time/frame and “roll up or down” the mouse to move one of the colorful cursors to the center red grid to view the event.






Event List

Click the icon  to enter the Event List mode.

Each HDD is allowed to save up to 8192 events. If you change a new HDD, the event list will be moved with the old HDD.



Click the icon  to play / pause the selected events.

Click the icon  to delete the selected events. Click the icon  or right click the mouse to exit and go back to the previous page.

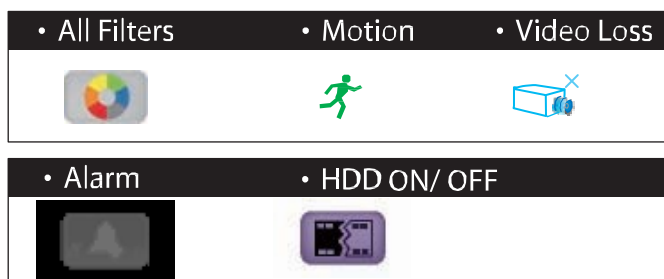
Event Filter:

To search events by channel or event filters.









1. **By Channels:** click the mouse on one of below icons to show specific events by all specific channel(s).



2. **By Event Filters:** click the mouse on one of below icons to show specific events by different event filters.



Event Details:

• Power ON/ OFF		• Mark	• USB
			
• Event No.	• Camera ON/OFF	• Filter	
			
• Data/ Time		• Event Source HDD/USB	
			

In the column of filter, it will show the filter icons in different colors, you can easily search the events.


When the cursor is moved to one of the events, the background will be changed to the beginning of the event.

Screenshot Function

Format the USB flash drive by NVR before using it for backup video, upgrade firmware or take screenshots.



To take a screenshot:


Click the icon  to take screenshots of the main display and store the image into the USB flash drive. The file name of the screenshot will be shown on the screen after saving to the USB flash drive.



NOTE: Screenshots are saved as JPEG files with the following naming convention: KMMDD00X.jpg

File name	Description
K	NVR file marker (all screenshots begin with K)
MM	Month
DD	Day
X	Numeral (for example : 001, 002, etc.)

Main Menu

If you set “Password Enable” as  , the NVR will request at least ID:2, default password 2222 to enter the menu.



Click this icon to enter main menu.



IP Camera Setup

Main Menu → IP cam Setup



Select certain IP cam and enter, it can set follow items:



1. Connect Type: Disable, Local LAN, and Internet.

2. Title: Key in IP cam title via virtual keyboard



3. Host name: Key in IP cam title via virtual keyboard



4. Port
5. ID
6. Password: Key in IP cam title via virtual keyboard



7. IP cam Menu: It can setup--Camera, Record, Alarm, LAN



8. IP cam Information: This allows you view all your IP cam information here, such as: OS version, S/N, IP address, DHCP, Http.....



9. IP cam firmware update



Camera



Click and roll the mouse to adjust **Brightness**, **Contrast**, and **Saturation**.

Video Orientation: Roll the mouse to select mirror function:--Disable/Flip/Mirror/Flip + Mirror.

Advanced Setup: Light sources and Day/Night switching configurations. It includes:

- AC Frequency
- Shutter Speed
- Gain
- Day/Night Threshold (Lux)
- Day/Night Mode



Record

The video frame rate can be configured here. It is referring to the recording quality.



Alarm/Motion Rate: set the frame rate when an alarm or motion event is triggered.

Working Rate: set the frame rate for normal working hours.

Non-working Rate: set the frame rate for the time period other than working hours.

Quality: set video quality. It refers to the bit rate generated.

Schedule: configure the working / non-working time periods.



Alarm



Motion Enable: Enable/Disable motion detection

Alarm Setup:

Response Duration

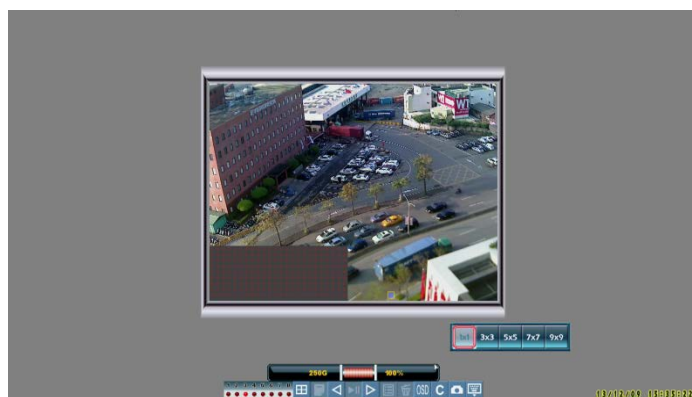
Motion Alarm Schedule



Motion Setup: Setup IP cam motion field.



Privacy Mask: configure the mask (hidden) areas on the image.



NOTE: click the split mode button can select/deselect all the image area in Motion and Privacy Mask setting.



LAN

Setup the IP camera's IP address, Subnet Mask, Gateway, DNS Server, DHCP and Http port.



Setup

Main Menu → Setup



Maintenance: the NVR settings can be performed with the below 3 types of acti.

- Load Factory Default: restore all NVR settings to the default
- Backup Settings (to USB): store the current NVR settings, so it can be applied to another unit of NVR.
- Restore Settings (from USB): restore settings based on the stored backup settings

Language:

The NVR supports 21 version of OSD language: English, Spanish, French, Italian, Russian, Danish, Swedish, Finnish, Czech, Dutch, Deutsch, Polish, Hebrew, T-Chinese, S-Chinese, Japanese, Thai, Vietnamese, Korean, Turkish and Portuguese.

Fan Speed: The lower the fan speed, the quieter the fan sound, but the higher the HDD temperature, vice versa.

Sequence Time: For sequence displaying, the dwelling time (before displaying next group) can be set.

Video Out:



- HDMI Screen size: Move the adjust bar to make HDMI out to fit the monitor size
- Video-Out Resolution: HDMI 1920*1080, HDMI 1280*720, VGA 1920*1080, VGA 1680*1050, VGA 1280*1024, VGA 1024*768:

Date/Time:

- Configure Date/Time
Display Format: Roll the mouse up or down to adjust as Y/M/D, D/M/Y or M/D/Y.
Date Setup: Click and roll the mouse up or down to adjust date.
Time Setup: Click and roll the mouse up or down to adjust time.
Exit/Update: Exit this menu and save the settings
- Time Zone: This allows you to select GMT for your local time zone.
- Daylight Saving Time: You are able to choose +0, +1, +2 on it.
- Synchronize with NTP: You are able to choose OV, NIST or MIST (Microsoft) on NTP (Network Time Protocol) Server.

Password:

Only users of ID: 3, default password:3333 can manage NVR Passwords.

- Password Enable:
Click and roll the mouse to enable/disable password.
 Password Enable: the NVR will request password to enter main menu, playback or event list. Users without password are allowed for live monitoring only.
-  Password Disable: the NVR will NOT request password for NVR operation.



- User Password (ID:1):
User of ID:1 is able to view playback and event list.
(Default password: 1111)
- Operator Password (ID: 2):
User of ID:2 is able to enter main menu. (Default password: 2222)
- Admin Password (ID:3):
User of ID:3 is able to manage NVR & LAN password.
(Default password:3333)



Information:

You are able to check the NVR information including software, hardware, start / stop recording time of HDD and LAN.



Record

Main Menu → Record



Video Information:

You can choose one of the cameras to see the video size at each hour.



Bit rate Information:

You can choose one of the cameras to see the bit rate size at each hour.



HDD Information:

You can view internal HDD and external HDD info. in this page.



- Record Mode

- External HDD Mode

Click to select one of the following:

Extended REC: NVR recording data into internal HDD first, when it record to 100%, it'll record to external HDD.

Mirror: NVR recording data into both internal and external HDD at the same time.

Read Only: Read HDD data only, no recording.

- Select Format HDD

Choose which HDD (Internal / external) is going to be formatted.

- Format HDD

No ☒


Cancel HDD format.

Yes ☒

Format HDD.

WARNING: All the recorded data including event list will be deleted once HDD is formatted.

Alarm

Main Menu → Alarm 

Buzzer:

Roll the mouse to enable/disable buzzer.

Key Buzzer:

Roll the mouse to enable/disable key buzzer.

Alarm Setup:

- Vloss Response Time

Video loss response time can be set from 0,3,5,10,30, 60,120,180 seconds to infinite.

- Alarm full screen:



Enable: Screen will pop out when alarm/ motion are triggered.



Disable: Screen will not pop out when alarm/ motion are triggered.

USB Device

Main Menu → USB Device 

To format USB flash drive by the NVR before using it for backup video upgrade OS.

The NVR support 2GB~16GB capacity of USB flash drive



Start / Stop Time & Select Channel:

Insert USB flash drive into the NVR. Click and Roll the mouse to set the start / stop time and channel which is going to be saved to USB flash drive



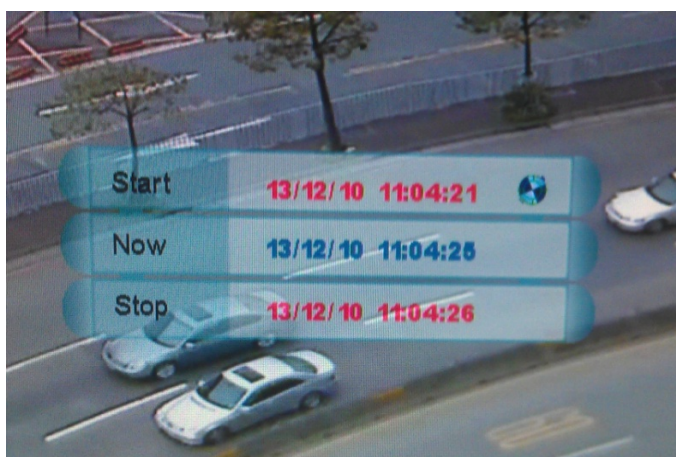
NOTE: One USB flash drive can save maximum 16 files. Each file is up to 1GB or 30 minutes.

Save To Device:

Insert USB flash drive into the NVR, it will show “USB Check OK!” on the screen



Click “Save to Device” to backup the video to USB flash drive, it will start storing the backup file. The file will be named by Start Time as “Ch_YYYYMMDDhhmmss.mov”



After backup is finished, check the event list to see if it is successful.



Format Device:


Insert a USB flash drive to format it.

WARNING: All the data will be deleted once the USB drive is formatted.

Firmware Update:

Before firmware update process, please be sure to save firmware to USB flash and insert it to NVR.

LAN

Main Menu → LAN 



Click and roll the mouse to set IP, Mask, Gateway, DNS Server, DHCP, Http Port.

LAN Password:

Only the users of "ID: admin"(default password : 3333) are able to manage LAN passwords



Click the numerals to set password.

- User Password (ID: user):
User of ID:user is able to view remote live only.
(Default password: 1111)
- Operator Password (ID: operator):
User of ID:operator is able to view remote live, playback and backup. (Default password: 2222)
- Admin Password (ID: admin):
User of ID:admin is able to set IE parameters including PPPoE and DDNS settings...etc.
(Default password:3333)

Network Access

System Requirements

Description	Requirement
CPU	PC-Intel Pentium 4 3.0GHz or above Mac-Intel Pentium Core Duo, 1.66 GHz or above
Operating System	Windows XP/ Vista/ 7 Apple OSX 10.5 or above
Memory	128 MB RAM
Video	16 MB of video memory
Network (LAN)	10/100 Base T Network
Network (WAN)	384 Kbps upstream <i>*High-speed Internet service is recommended when using NVR Netviewer</i>
Browser	PC-Internet Explorer 6 or later Mozilla Firefox <i>*Please be sure to install the IE Tab plug-in at http:// addons.mozilla.org</i> Mac-Safari 4.0 and above
Media Player	Quick Time Player7 or later-visit www.apple.com to download the latest version

Getting Started

The default ID and Passwords:

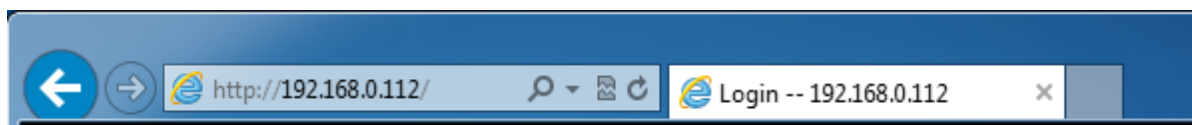
User Account	ID	Password
Guest	user	1111
Operator	operator	2222
Admin	admin	3333

Find device IP address

The device IP address can be found in local NVR configuration. Enter Menu -> Setup and then click on Information. The device information is presented as figure below. Find IP address in LAN.



Open browser, enter IP address of the NVR, and press [Enter] (The default IP address of the NVR: 192.168.0.89)

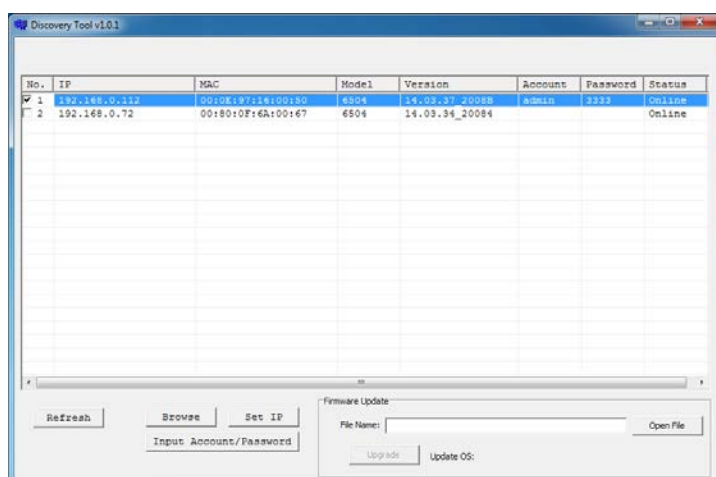


Discovering devices by search tool

The discovery tool is provided for searching the network video devices in a network. When NVR device is correctly installed in a network, it can be searched by the tool. The steps of applying this search tool are as below.

Step 1:

Launch the Discovery Tool. The tool will start searching and then displaying the NVR devices on the list after they are found.

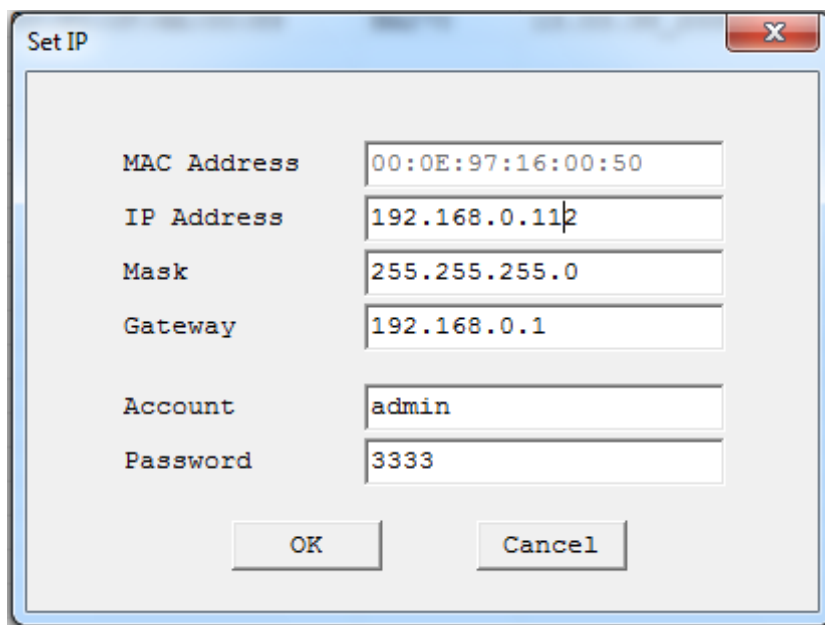


Step 2:

Check the box to select a camera device from the list. The following operations will be applied on it.

Step 3:

The selected NVR may have been assigned a valid IP address via DHCP server. It can also be manually given an IP address. To do so, click on “Set IP” button. In the pop-up “Set IP” window, input the IP, Subnet Mask and Gateway. Input account info if NVR is password protected



A screenshot of a "Set IP" dialog box. It contains the following fields and values:

Field	Value
MAC Address	00:0E:97:16:00:50
IP Address	192.168.0.112
Mask	255.255.255.0
Gateway	192.168.0.1
Account	admin
Password	3333

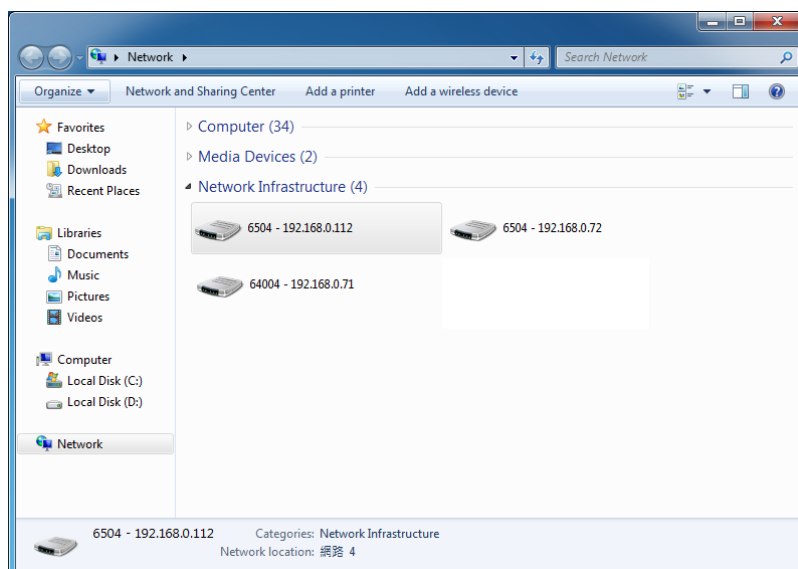
At the bottom, there are "OK" and "Cancel" buttons.

Step 4:

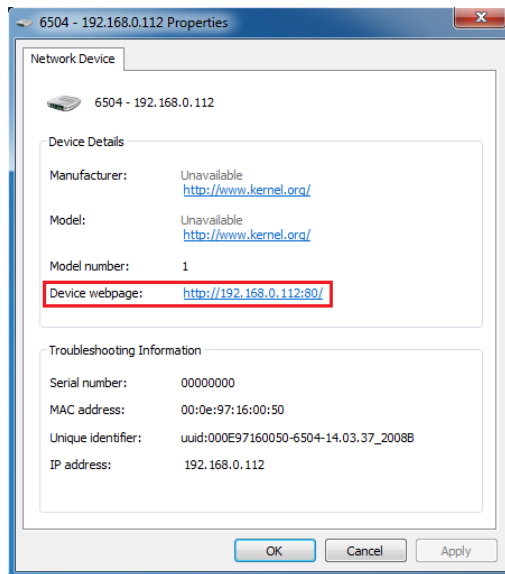
Click on the “Browse” button. This will launch an IE browser and link to the NVR web page immediately.

Discovering devices in Windows Network

The NVR can be discovered in “Windows Network” of a client PC when it is connected in a network with DHCP and UPnP services available. See the figure below.

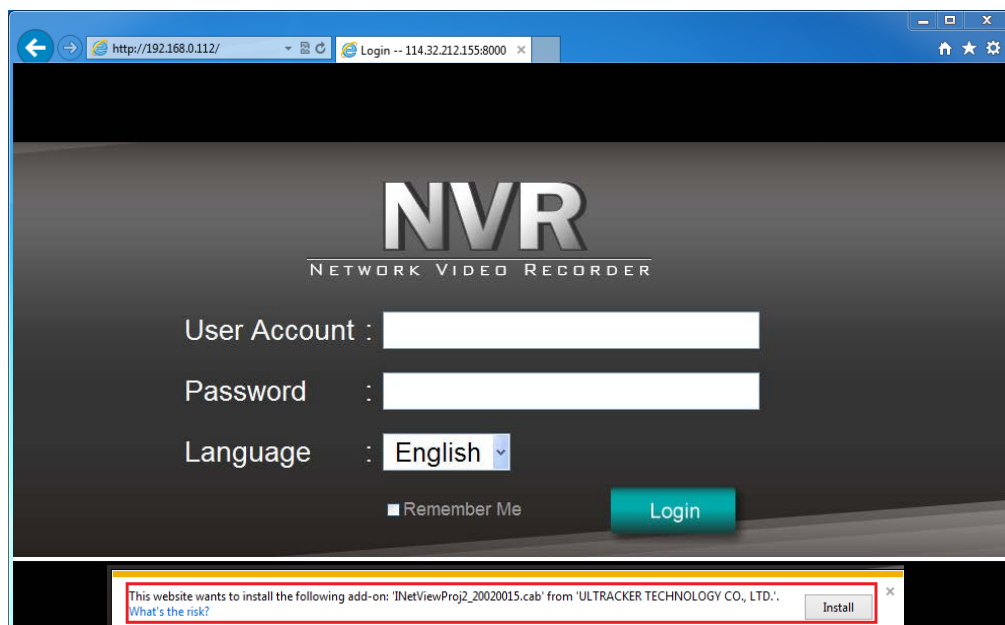


Right-click on the device and select “Properties”, the pop-up window shows all the information related to the device, including the **web access info**. Use the web address to connect to the NVR. Or simply double-click on the selected device, which gets immediately access to the NVR webpage.



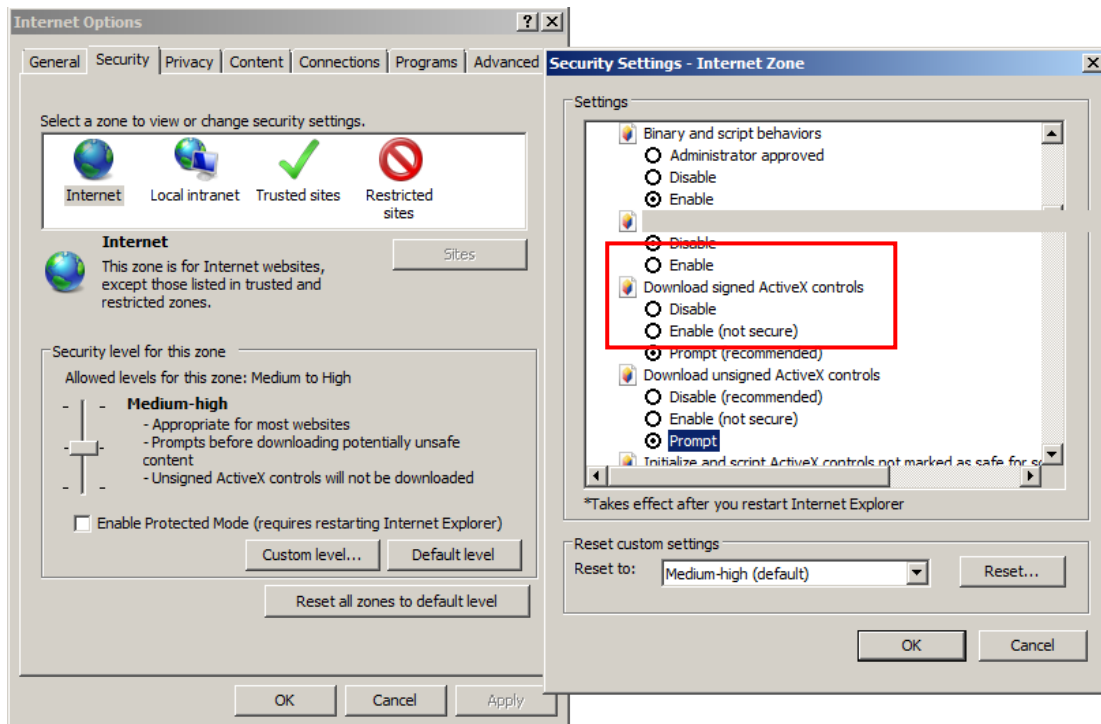
ActiveX add-on installation

The access to the NVR webpage for the first time will be prompted to install the ActiveX. This installation is essential for viewing live video via IE browser. To allow the installation, click “Install” button on the message bar. Follow the instructions to complete the installation.

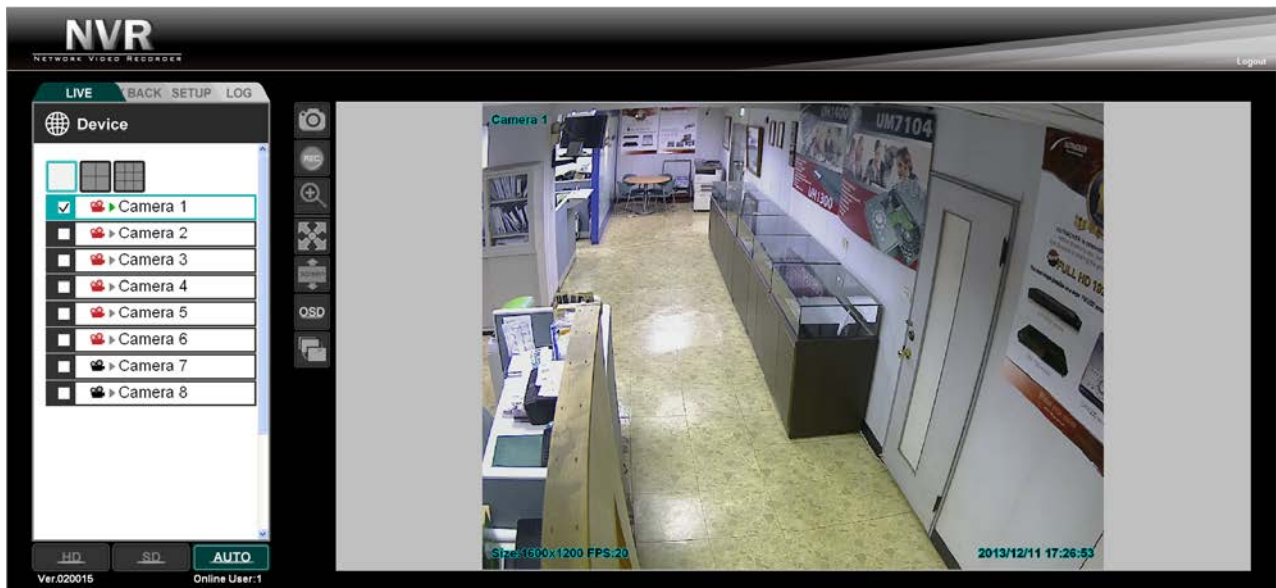


NOTE:

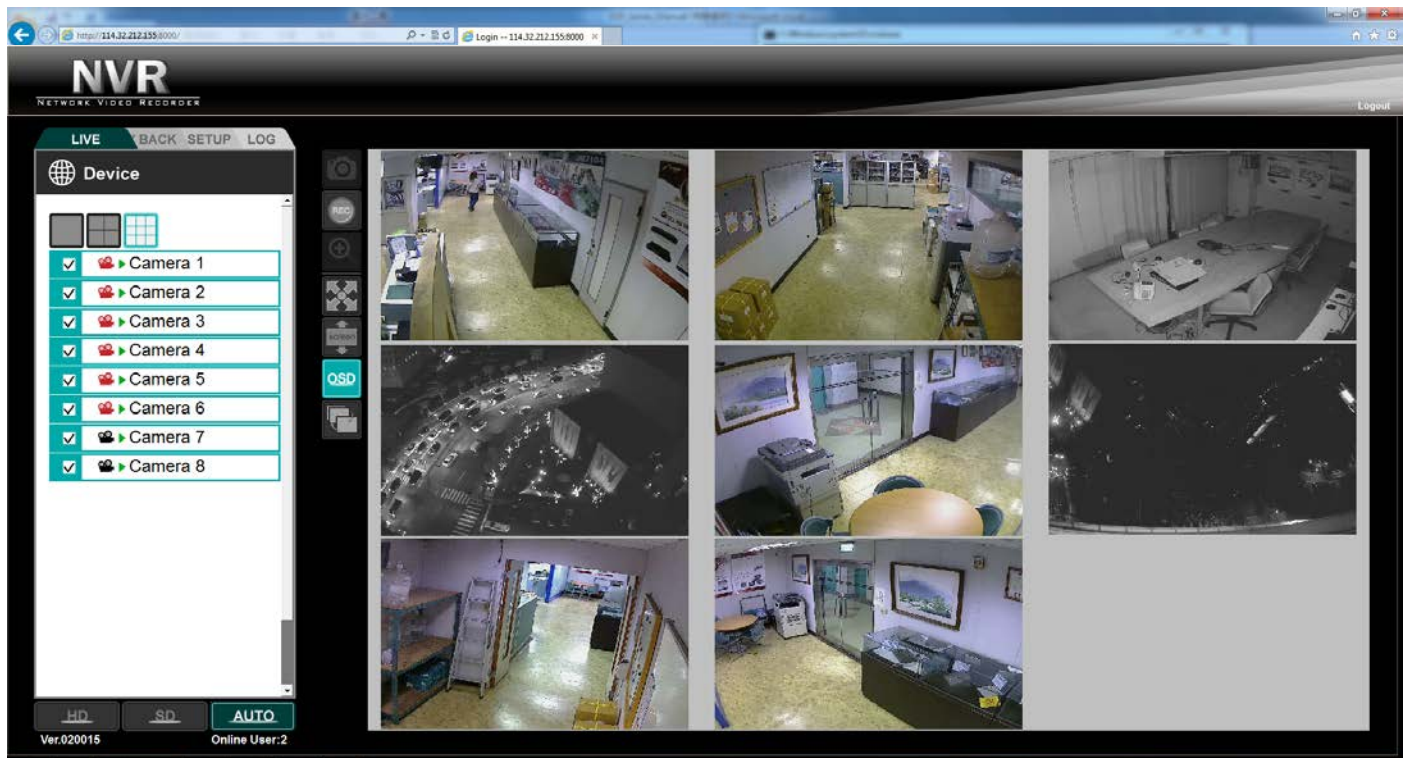
If there is not any prompt message or ActiveX cannot be installed at all, change the IE security level and settings. In IE → Internet Options → Security → Custom level, make sure the “Download signed ActiveX controls” setting is “**Enable**” or “**Prompt**” selected.



Enter ID and Password to login. The IE browser can then display the web UI of the NVR and the live video of the managed cameras as below.





Web UI Operations




Live Viewing









LIVE Click this button for live mode.

 Click this button to view in single channel

 Click this button to view in Quad mode

 Click this button to view in 9-split mode.

Drag & Drop (or tick/untick) the selected camera from the list to the viewer channel.

<input checked="" type="checkbox"/>		Camera 1
<input type="checkbox"/>		Camera 2
<input type="checkbox"/>		Camera 3
<input type="checkbox"/>		Camera 4
<input type="checkbox"/>		Camera 5
<input type="checkbox"/>		Camera 6
<input type="checkbox"/>		Camera 7
<input type="checkbox"/>		Camera 8



View in video image as 1600*1200.



View in video image as 640*400.



Switch automatically to HD or SD resolution when viewing in shingle channel or multi channel mode respectively.



Press this button to capture current live image.



Press this button to record image to PC.



Press this button to digital zoom in single channel.



Press this button to enlarge image to full screen, press keyboard "Esc" to return.



Press this button to expand image to fit image window size.



Press this button to hide the OSD text overlap.



Press this button for camera sequence

Online User:2

This show user online status, maximum allow 8 users online.

Playback

PLAY BACK Click this button for playback mode.

Date/Time Playback mode by Date/Time

Event Playback model by event

Backup Click this button for remote backup


NOTE:

Only operator and admin are able to enter playback mode


Playback by Date/Time:

1. Select the channel you would like to playback

<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input checked="" type="checkbox"/> 4
<input type="checkbox"/>	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8

2. Click  to open a pop-up calendar to select the date and time.

Play Time

2013/12/13 02:52:37 

2013 12











SUN	MON	TUE	WED	THU	FRI	SAT
24	25	26	27	28	29	30
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				





0 6 12 18 24

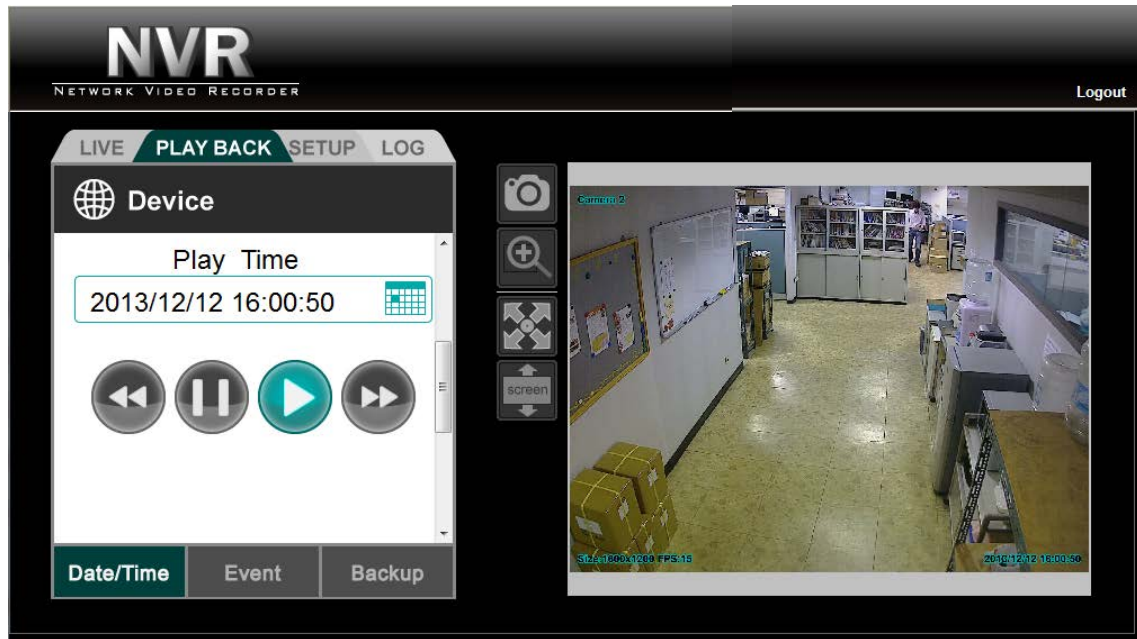
16:00:00

Set Cancel

To use the pop-up calendar:

- A. Click   to change the month.
- B. Click a date 
- C. Click   to set the time.
- D. Click  .The pop-up calendar closes.
- E. Click     to control playback.

3. Click     to control playback rewind, pause, play and fast-forward.



☐ All[illegible]

Select a time period that will be exported as a video footage.

1. Select start/end time

2013/12/12 15:04:03

2013/12/12 15:04:13

- ## 2. Select Channel

3. Click on “Start” button (become “Stop” when it is being processed). The video exporting would start immediately.

PC

Camera 1

ch02_20131212_150403_440133409.mov

20%

Stop

Setup

SETUP

Click this button for full remote setup mode

Local Config

Press this button for following setting:

Local Configuration	
Protocol	TCP
Stream Type	Sub Stream
Save record files to	C:\NVR_Backup
Save snapshots in live view to	C:\NVR_Backup
<input type="button" value="Apply"/> <input type="button" value="Return"/>	

Basic

Press this button for following setting

Configuration	
Device Title	6504
Camera 1	Channel 1
Camera 2	Channel 2
Camera 3	Channel 3
Camera 4	Channel 4
Camera 5	Channel 5
Camera 6	Channel 6
Camera 7	Channel 7
Camera 8	Channel 8
Language	English
Date & Time	Remain the same
Date Mode	<input checked="" type="radio"/> Y/M/D <input type="radio"/> D/M/Y <input type="radio"/> M/D/Y
	2013 / 10 / 31 10 : 18 : 24
GMT Offset	GMT+08:00

IP Camera List

Press this button for following setting:

IP Camera List			
No.	IP Camera Address	MAC Address	Port
1	192.168.0.106	00-00-00-00-00-00	90
2	192.168.0.102	00-00-00-00-00-00	80
3	192.168.0.103	00-00-00-00-00-00	80
4	0.0.0.0	00-00-00-00-00-00	0
5	0.0.0.0	00-00-00-00-00-00	0
6	0.0.0.0	00-00-00-00-00-00	0
7	0.0.0.0	00-00-00-00-00-00	0
8	0.0.0.0	00-00-00-00-00-00	0

Press this button for following setting:

Schedule

Camera 1

Record Schedule

Motion Schedule

Non-Working Hours

Working Hours

SUN

MON

TUE

WED

THU

FRI

SAT

00

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

Apply

Set All

Clear All

Press this button for following setting:

Event Management

Buzzer	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Key Buzzer	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Vloss Response Time	180
Alarm Full Screen	<input type="radio"/> Disable <input checked="" type="radio"/> Enable

Apply

Return

Press this button for IP, E-mail, PPPoE, DDNS setting:

IP Setting

Static IP	IP Address	192.168.0.101
	Maske	255.255.255.0
	Gateway	192.168.0.1
	DNS Server	0.0.0.0
HTTP Port	8001	
DHCP	<input checked="" type="radio"/> Disable <input type="radio"/> Enable	
UPnP	<input type="radio"/> Disable <input checked="" type="radio"/> Enable	

Apply

Return

E-Mail

E-Mail Status	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Interval (Minute)	5

Press this button for following setting:

HDD Information

Internal HDD

[Record Mode] Single Write

[Vendor]

[Size] 0G 0%

[Start]

[Stop]

External HDD

[HDD Mode]

[Vendor]

[Size] 0G 0%

[Start]

[Stop]

Record Mode

Single Write

External HDD Mode

Extended REC

Select Format HDD

Disable

Apply

Return

Press this button for following setting:

Authentication

Level	User Name	Password	
Administrator	<input type="checkbox"/> admin	<input type="password"/>	<input type="password"/>
Operator	<input type="checkbox"/> user1	<input type="password"/>	<input type="password"/>
Guest	<input type="checkbox"/> user2	<input type="password"/>	<input type="password"/>

Apply

Return

Press this button for following setting:

Information

[OS] 14.03.14_1FFD6

[SN] 65040000314C

[B] REV:1.1

[N] 6504

[MAC] 00-0E-97-16-00-D5

[IP] 192.168.0.101


[DHCP] Disable

[HTTP Port] 8001


[DDNS] ____

Log


LOG Click this button for log mode.

 **System** Press this button for system info.

System	
OS Version	14.03.14_1FFD6
Serial Number	65040000314C
HW Version	REV:1.1
Model Name	6504

 **Network** Press this button for network info.

Network	
MAC Address	00-0E-97-16-00-D5
IP Address	192.168.0.101
Maske	255.255.255.0
Gateway	192.168.0.1
DNS Server	0.0.0.0
HTTP Port	8001
DHCP	Disable
DDNS	—

 **Online User** Press this button for online user info.

Online User				
No.	Data	Time	Login Account	IP Address
1	2013-10-31	10:10:08	admin	114.32.214.32
2	—	00:00:00	—	0.0.0.0
3	—	00:00:00	—	0.0.0.0
4	—	00:00:00	—	0.0.0.0
5	—	00:00:00	—	0.0.0.0
6	—	00:00:00	—	0.0.0.0
7	—	00:00:00	—	0.0.0.0
8	—	00:00:00	—	0.0.0.0

Mobile Connectivity

You can remotely view camera streams from your NVR on your iPhone™, iPad, Android.

Compatible Mobile Viewing Devices

- iPhone iOS 6: 3G, 3GS, 4, 4S, 5.
- Windows Mobile 6.0 devices or later (touch screen only): HTC Diamond.
- Android 2.0 or above: New HTC ONE, HTC Wild Fire, Motorola Droid, Samsung i7500, Archos 5" tablet.

NOTE: Instant Mobile Viewing on an iPhone™ using an iPhone™ App. Free download available from Apple™ Store under the name "MobileView". Compatible with iPhone™ iOS 4.3.3 and above. Selectable one channel live viewing. Mobile phone data plan is required (not included). Router port forwarding is required.

NOTE: Instant Mobile Viewing on Android 2.0 and above. Selectable one channel live viewing. Mobile phone data plan is required (not included). Router port forwarding is required.

Mobile Viewing

Viewing Tips

Switch the mobile device into WiFi mode if the wireless internet is accessible. This allows monitoring the system without incurring data charges on the 3G data plan.

For Mobile View to run via 3G network, it is necessary to obtain APN (Access Point Name) from local service provider and enable APN on the mobile device.

Mobile Connectivity on iPhone

NOTE: While download the MobileView program and use mobile viewing function, make sure the mobile phone is connecting to network (WiFi/3G).

NOTE: To create an iTunes account to download Apps from the Apple App store. A valid credit card is required to create an iTunes account.

Enabling APN (Access Point Name)

Step 1:

Tap Settings on the Home Screen.



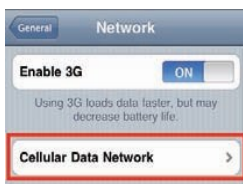
Step 2:

Tap [General] → [Network]



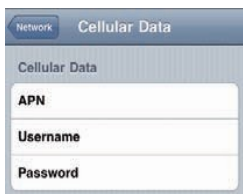
Step 3:

Tap [Cellular Data Network]



Step 4:

Tap [APN] in Cellular Data and enter the relevant information provided by the local service provider.



Step 5:

Press the 'Home' button to return to the home screen.

Downloading the MobileViewHD:

Step 1:

Open the [App Store] and click [Search].


Step 2:

In the search bar, enter MobileViewHD and you will find the MobileViewHD app.

Step 3:

Enter the MobileView2 application page to download and install the program.


Step 4:

When the installation is finished, there will be the icon  n your mobile phone.

MobileViewHD Operations:

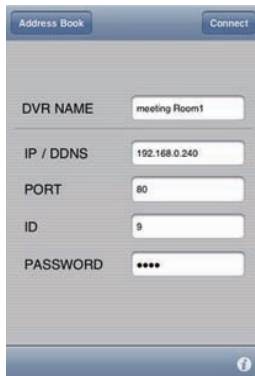
- Connect to NVR

Step 1:

Click  to execute the MobileViewHD.

Step 2:

Enter the NVR information and click [Connect] to start connecting to NVR.

A screenshot of the MobileViewHD application interface. At the top, there are two buttons: 'Address Book' and 'Connect'. Below these, there are five input fields with labels: 'DVR NAME' (containing 'meeting Room1'), 'IP / DDNS' (containing '192.168.0.240'), 'PORT' (containing '80'), 'ID' (containing '9'), and 'PASSWORD' (containing '****'). At the bottom right, there is an information icon (i).

NVR NAME:

Enter the name you want for the NVR.

IP/DDNS:

Enter the IP/DDNS address of the NVR.

Port:

Enter the Network port of the NVR.

ID & Password:

Enter the LAN ID and password of the NVR.

NOTE: The ID & password are the LAN ID & password you set for NVR. Please refer to the instruction manual of the NVR.

■ Address Book



This smart function allows you to name the camera locations without remembering all the IP address. You can simply choose the name of NVR which you want to connect to and tap [Connect] to access to it.

Edit:

Tap  to re-edit the relevant information of NVR.

Add new NVR:

Tap  to add new NVR on the Address Book.

Delete NVR from Address Book:

Tap the NVR which you want to delete and tap  to remove it from the Address Book.

■ Mobile Viewing Overview:



1. Logout:

Click to go back to the setting page. You can reset NVR Name, IP, port, ID and password for the NVR.

2. Display Screen:

The MobileViewHD program only provides single channel live viewing. Click the display screen to switch to full screen, and click the screen again to go back.



3. Information window:

You can check the data transmission rate of network (BITSTREAM) and frame per second (FPS).

4. Info:

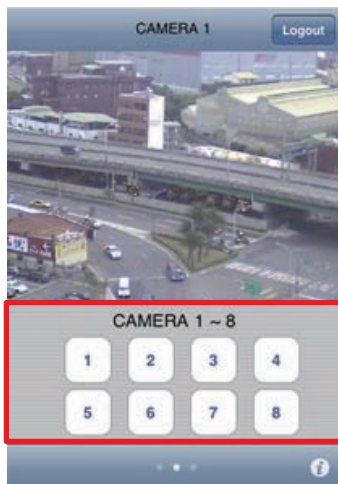
You can check the version of MobileView2 program and click [OK] to go back to main screen.



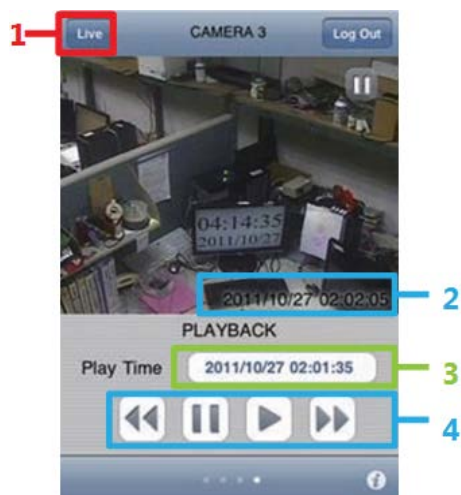
■ Select Channel:

You can tap the information window and click to select the different channels.

NOTE: Under full screen display mode, you can also scroll the display screen to switch between different channels.



■ Playback:



1. Live:

Tap to go back to the Live viewing mode.

2. Display Screen:





Current time of Playback will be shown at bottom right of the display screen.

3. Play Time:

Tap the bar to adjust and choose the time you want to play.




4. Function buttons:

Tap     buttons to Rewind/ Pause/ Play or Fast forward the recorded video.

Mobile Connectivity on Android

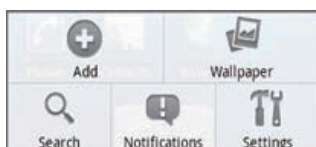
NOTE: To access to mobile viewing function, you need to make sure the mobile phone is connecting to network (WiFi/3G).

NOTE: Prior to install the "MobileView2", please be sure to get into the  and download the "Appsinstaller" program on your mobile phone first.

Enabling APN (Access Point Name):

Step 1:

Press the [MENU] button on your mobile phone and tap [Settings].



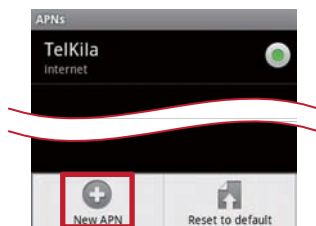
Step 2:

Tap [Wireless controls]→[Mobile networks]→[Access Point Names].



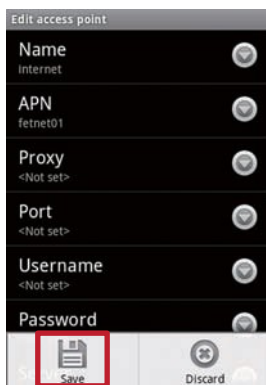
Step 3:

Select the network service provider you want. Or you can also press the [Menu] button and choose [New APN] to create a new one.



Step 4:

Fill out the necessary information provided by the selected network service provider , then press the [Menu] button again and tap on [Save] to enable the configurations.



NOTE: The [Name] field does not really matter, but please be sure not to leave it blank.

Downloading the MobileViewHD:

Step 1:

Connect your mobile phone with your PC.

NOTE: In order to connect the mobile phone with PC, please install the USB driver which included in the attached CD.
(Please refer to your mobile instruction manual)


Step 2:

Copy the file “MobileViewHD .apk” into your mobile phone.

Step 3:

Press the [Menu] button and tap  → [Applications], and then enable “Unknown sources”

Step 4:

Tap  to implement the installer system, and then click “MobileViewHD” to start installing.

Step 5:

You will see the icon  after the successful installation.

MobileViewHD Operations:

- Connect to NVR:

Step 1:

Tap  to enter instant mobile viewing mode.

Step 2:

Enter the NVR information and click  to start connecting NVR.



The image shows a mobile application window titled 'MobileView'. It contains a form with the following fields: 'IP / DDNS' with the value '192.168.0.251', 'PORT' with the value '80', 'ID' with the value '9', and 'PASSWORD' with four asterisks. There is a checkbox labeled 'Keep me signed in' which is checked. At the bottom right of the form is a button labeled 'CONNECT'.

IP / DDNS: Set IP or DDNS address of the NVR you want to monitor.

Port: Set the Network port of the NVR you want to monitor.

ID & Password: Input LAN ID and password of the NVR you use.

Keep me signed in: You can enable this function to save the ID and password setting in your mobile.

NOTE: The ID & password are the LAN ID & password you set for NVR. Please refer to the instruction manual of the NVR.

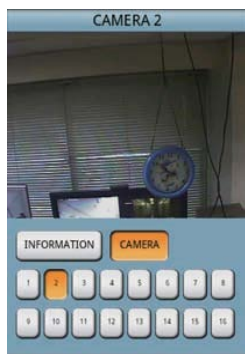
■ Mobile Viewing Overview:




Display Screen: Tap the display screen to switch to full screen, and tap the screen again to go back.

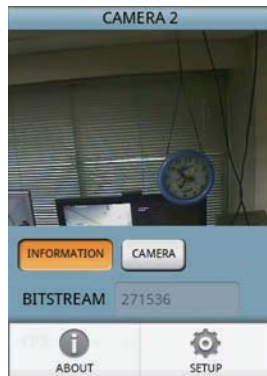


Channel Select: Select the channel you want to monitor.



Information: You can check the data transmission rate of network (BITSTREAM) and frame per second (FPS).

Menu: Press the  button to choose for [ABOUT] or [SETUP].



ABOUT: Tap to see the version of MobileView2 program.





SETUP: Tap to call the pop-out operating interface for [Live], [Playback] and [Logout].



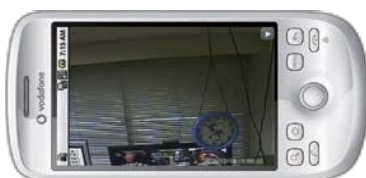
Exit Button: Click to exit mobile viewing mode.

■ Playback:

Under Live mode, press the [MENU] button and tap on . On the pop-out interface, tap on  [Playback] to enter the playback mode.





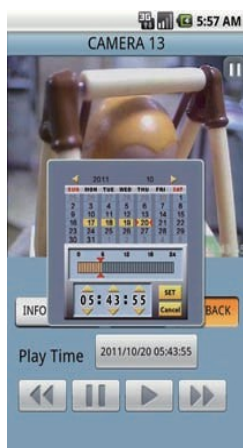
Display Screen: Current time of Playback will be shown at bottom right of the display screen.







NOTE: You can also tap the display screen to switch to full display mode, and tap the screen again to go back.


Channel Select: Select the channel you want.

Play Time: Tap the bar to adjust and select the date/ time you want to play, then tap on the  button to confirm it. Tap the  button, playback starts.



Function buttons: Tap     buttons to Rewind/ Pause/ Play or Fast forward the recorded video.

Go back to Live: Press the [MENU] button and tap on . On the pop-out operating interface, tap on .

Logout: Tap  to go back to the setup page and reset the configurations if needed.

Specifications

NVR Specifications

SYSTEM		Post Recording	Up to 10 Minutes
Operating System	Linux (embedded)	Reliability	Auto-recovery after power resuming
Number of Channels	4 + 4 Channels	PLAYBACK	
Pentaplex	Simultaneous View, Record, Playback, Backup & Remote Monitoring	Playback Speed	Single Frame, Forward / Rewind (x5, x15, x60)
INPUTS / OUTPUTS		Channels	Max. 8Ch
Camera Input	4Ch(PoE) + 4Ch(LAN)	Search	By time or event
Video Output (VGA)	Up to 1920x1080	Log Search	Yes (max. 8192 events)
Video Output (HDMI)	Up to 1920x1080	STORAGE & ARCHIVE	
Audio Out	RCA x2 (Left & Right)	Storage	Internal HDD x1, External USB HDD x1
USB Port	3	Maximum Capacity	4TB
DISPLAY / OPERATIONS		Backup Media	USB Flash Drive & External HDD
Live Display	Up to 8	Backup File Format	MOV
Live Display Speed	Up to 120 fps	Raid Support	Raid0 / Raid1(Mirror)
OSD	Yes	CONNECTIVITY	
System Navigation	USB Mouse, IR Remote Controller, Touch Monitor Control	Supported Operating Systems	Windows™ 8/7/Vista/XP
Split Screen	1, 4, 9	Easy Connect	UPnP Supported
Motion Area Setting	Yes (50x37)	Browsers	Internet Explorer & Safari & Chrome & Firefox
Motion Sensitivity	100 levels	Email notification	Yes
Digital Zoom	Yes, 1x ~ 4x	Smart Phone Compatibility	iOS, Android
Privacy Mask	Yes	DDNS	Yes
User Authority	Yes	System Configuration	Full setup configuration over network
Time Synchronization	NTP Supported	Network Protocol	TCP/IP, PPPoE, DHCP, DNS, DDNS, NTP, SMTP, UPnP
Firmware Upgrade	Via USB flash drive	Network Interface	10/100 Mbps RJ45 x 1 Independent 10/100 Mbps RJ45 (PoE) x 4
RECORDING		GENERAL	
Compression Type	H.264	Power Consumption	DC12V, 4A, 48W
Compression Rate	300:1	Supply Voltage	100~240VAC
Recording Resolution	Up to 1600x1200	Unit Dimensions (W x D x H)	295 × 161.1 × 32.2mm
Recording Speed	Up to 120 fps	Unit Weight	0.85Kg (without HDD)
Recording Quality Control	5 levels	Operating temperature	5 ~ 40°C
Recording Schedule	Manual / Schedule / Event	Humidity	10 ~ 75%
Pre Recording	Up to 15 Secs		

IP Camera Specifications

Model	WQ24	WQ26
SYSTEM SPECIFICATION		
System	ALTERA Cyclone IV,8MB Flash ROM, 128MB DDRIII	
Compression	H.264	
Resolution	Main Stream: 1600x1200, Sub Stream: 640x400	
Frame Rate	15 fps at all resolutions	
Image Sensor	1/3.2" 2Megapixel CMOS sensor	
Lens	3.6mm@F1.8	6mm@F1.8
Minimum Illumination	0 Lux (IR On)	
IR Illuminators	up to 15 meters	
ON Board Storage	Micro SD card slot	
Image Settings		
Day / Night mode	ICR (Removable IR-cut filter) for day & night vision	
Image Adjustment	Brightness, Contrast, Saturation, Gain Control (x3.5)	
Image Orientation	Flip, Mirror, 180° Rotation	
Event		
Trigger	Motion detection, Video Loss	
Action	Email, Buzzer, Pop-up Channel	
Network		
Ethernet	10/100 Base-T	
Protocols	IPv4, HTTP, SMTP, DHCP, NTP, TCP/IP, UPnP, DNS, DDNS, PPPoE	
Power Supply		
DC Adapter (Optional)	DC 5V, Max: 4W	
PoE	by DN408 series NVR, Max:4.5W	
Operating Environment		
Temperature	0°C ~ 40°C (32°F~104°F)	
Humidity	0% - 90% (non-condensing)	
Appearance		
Dimension (L x W x H)	111.8mm x 67.4mm (with sunshield), Ø61	
Weight	415 Grams (without stand)	
Connectors	RJ45 Ethernet connector	
	5V DC Jack	
Client System		
Mobile App	MobileViewHD (iOS/Android)	
NVR	Dynacom DN408 series	